

From glowbugs@theporch.com Tue Sep 24 02:40:57 1996
Return-Path: <glowbugs@theporch.com>
Received: from uro (localhost.theporch.com [127.0.0.1]) by uro.theporch.com
(8.8.Beta.6/AUX-3.1.1) with SMTP id CAA21585; Tue, 24 Sep 1996 02:36:19 -0500
(CDT)
Date: Tue, 24 Sep 1996 02:36:19 -0500 (CDT)
Message-Id: <199609240736.CAA21585@uro.theporch.com>
Errors-To: ws4s@midtenn.net
Reply-To: glowbugs@theporch.com
Originator: glowbugs@theporch.com
Sender: glowbugs@theporch.com
Precedence: bulk
From: glowbugs@theporch.com
To: Multiple recipients of list <glowbugs@theporch.com>
Subject: GLOWBUGS digest 300
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas
X-Comment: Please send list server requests to listproc@theporch.com
Status: 0

GLOWBUGS Digest 300

Topics covered in this issue include:

- 1) Re: Making your own IF transformers
by Dan Kerl <dlkerl@ro.com>
- 2) Need info on Antenna AS-2259/GR (crossed dipoles)
by rdkeys@csemail.cropsci.ncsu.edu
- 3) Re: Need info on Antenna AS-2259/GR (crossed dipoles)
by torell@sicom.com (Kent Torell)

Date: Mon, 23 Sep 1996 11:01:28 -0500
From: Dan Kerl <dlkerl@ro.com>
To: glowbugs@theporch.com
Subject: Re: Making your own IF transformers
Message-ID: <3246B458.1A52@ro.com>

On Fri, 20 Sep 1996, Jeff Duntemann wrote:

>
> I've not heard of mu-metal; no idea whether it's aluminum based or what. If
> you know, please summarize.
>

<from the 'rubber bible' 62nd ed., pg E-118 "High-Permeability Magnetic
Materials">

Mu metal, from sheet stock,

composition:

18% Fe

75% Ni

2% Cr

5% Cu

Typical heat treatment: anneal finished pieces @1175 deg C in H2 atmosphere

permeability @ B=20 gauss: 20,000

maximum permeability: 100,000

saturation flux density, B gauss: 6,500

(hysteresis loss @ saturation not given)

Coerecive force @ saturation: .05 Oersteds

Resistivity: 62 uohm-cm

Density: 8.58 gm/cm^3

Dan Kerl

dlkerl@ro.com

Date: Mon, 23 Sep 1996 15:00:39 -0400 (EDT)

From: rdkeys@csemail.cropsci.ncsu.edu

To: boatanchors@theporch.com, glowbugs@theporch.com

Cc: rdkeys@csemail.cropsci.ncsu.edu ()

Subject: Need info on Antenna AS-2259/GR (crossed dipoles)

Message-ID: <9609231900.AA100266@csemail.cropsci.ncsu.edu>

I picked up a neat little military antenna at Shelby hamfest a few weeks back for 35 bucks. It is a crossed dipole skywave radiator on a 15 foot coaxial mast, designed to be used with 2-30 mhz radio sets such as the AN/PRC-47 or comparable vehicular sets (AN/GRC-19 maybe?) from the Vietnam era. Do any of the BA/GB folks know anything about this antenna? It looks like it might be good for use on the BA/GB net because of its omnidirectional low skyway propagation at low HF. Anyone ever used one? Maybe it is time to find a PRC-47 and try it out? Anyone have a spare AN/PRC-47 (semi-toob) pack set that won't break the piggy bank?

Bob/NA4G

rdkeys@csemail.cropsci.ncsu.edu

Date: Mon, 23 Sep 1996 12:21:47 -0700

From: torell@sicom.com (Kent Torell)

To: rdkeys@csemail.cropsci.ncsu.edu
Cc: glowbugs@theporch.com
Subject: Re: Need info on Antenna AS-2259/GR (crossed dipoles)
Message-ID: <v02130502ae6c90ba48a6@[192.91.202.41]>

>I picked up a neat little military antenna at Shelby hamfest a few weeks
>back for 35 bucks. It is a crossed dipole skywave radiator on a 15
>foot coaxial mast, designed to be used with 2-30 mhz radio sets such as
>the AN/PRC-47 or comparable vehicular sets

Lucky you! I used a brand new one of these last year when we were testing out some hf radios for the army. It was made of a bunch of short coax pipe sections that slid together; the mounting on the top was just a dipole without a balun. One element was cut for around 14 Mhz, I think, and the other down around 8. The bottom could either be plugged into a gizmo that attached directly to the radio antenna tuner output, or the other base was a 50 ohm bnc. Rolled up nicely into a pouch. The base was the hard part to find...it is just a 50 ohm connection, so you could invent something. The antenna elements are used as the guy wires, and there are some metal clips along the cords that will tell you where to pound your stakes. The procedure for raising the antenna was to mount the top on the radio, then measure and drive the stakes and fasten the guy wires /elements down. Then you keep inserting 50 ohm mast sections until the antenna is all the way up. Takes about 5 minutes, and one man operation!

73, ab7oa

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End of GLOWBUGS Digest 300
